| POSITION                  | INITIALS  | ID NO. | DATE     |  |  |  |  |
|---------------------------|-----------|--------|----------|--|--|--|--|
| FEE DETERMINATION         |           |        |          |  |  |  |  |
| O.I.P.E. CLASSIFIER       | 8:20      |        | 2/2/0    |  |  |  |  |
| FORMALITY REVIEW          | ÛÙ        | 8ትረ    | 02/9/12/ |  |  |  |  |
| RESPONSE FORMALITY REVIEW | <u></u> J |        |          |  |  |  |  |

## INDEX OF CLAIMS

## BEST AVAILABLE COL

| ~ | Rejected                   | N | Non-elected  |
|---|----------------------------|---|--------------|
|   | Allowed                    | 1 | Interference |
| _ | (Through numeral) Canceled | Α | Appeal       |
| ÷ | Restricted                 | 0 | Objected     |

|                   |     |          |              |            |              |  | ÷         | ••••     | •••••    | ••••   | ••••     | ••••     | ••• |          | , ,      | <b>6311</b> | 1011     | ,u             |          |          |            | 0  | •••••       |          | •••••      | •••••    |     | •••••    | . Obj      | 1501        | cu       |          |          |          |              |                |                |          |          |           |
|-------------------|-----|----------|--------------|------------|--------------|--|-----------|----------|----------|--|----------|----------|-----|----------|----------|-------------|----------|----------------|----------|----------|------------|--|-------------|----------|------------|----------|-----|----------|------------|-------------|----------|----------|----------|----------|--------------|----------------|----------------|----------|----------|-----------|
| Claim             | Γ   |          |              | -          |              |  | ate       | 1        | -        |  |          |          |     | [        | Clai     | m           |          |                |          |          | Date       | )  |             |          | _          |          |     | Cla      | im         |             |          |          |          | Date     | •            |                |                | _        |          |           |
|                   | 3   | 100      | 2            |            | 17           | 5  | T         |          |          |  |          |          |     | ſ        |          | ĮBĮ.        |          |                |          |          |            |  | -           |          |            |          |     |          | 쿌          |             |          |          |          |          |              | T              |                |          |          |           |
| Final<br>Original |     | ٤        | 8            |            | خزتي         | 19   |           | 1        |          |  |          |          |     |          | Final    | Original    |          |                | -        |          |            |  |             | ļ        | İ          |          |     | Final    | Original   | ١           |          | -        | į        |          | -            | 1              |                |          | 1        |           |
| F (1)             | 1   | 16       | 1            |            | N            |  | 4         | $\dashv$ | -        |  | $\dashv$ |          |     | -        | <u> </u> | 51          | $\dashv$ | $\dashv$       | ᅱ        | -        | $\dashv$   | $\dashv$   | $\dashv$    | ┥        | +          | $\dashv$ |     |          | 101        | +           | -        | $\dashv$ | $\dashv$ | -        | $\dashv$     | $\dashv$       | $\dashv$       | +        | 닉        |           |
| 1 2               | 4   | 4        | Н            | <u>`</u>   | 쑤            | r  | +         | $\dashv$ | +        | _  | $\dashv$ | $\dashv$ |     | $\vdash$ |          | 52          | _        | $\dashv$       | $\dashv$ | $\dashv$ | $\dashv$   | $\dashv$   | $\dashv$    | $\dashv$ | +          |          |     |          | 102        | $\dashv$    | +        | ᅥ        | $\dashv$ | +        | $\dashv$     | +              | +              | +        | $\dashv$ |           |
| 3                 | H   | +        | Н            | Н          | +            | H  | +         | $\dashv$ | $\dashv$ | -  | -        | ㅓ        |     | ŀ        | _        | 53          | +        | $\dashv$       | $\dashv$ | $\dashv$ | ┪          | 7  | 1           | $\dashv$ | ┪          | _        |     |          | 103        | 7           | ᅥ        | -        | $\dashv$ | $\dashv$ | $\dashv$     | $\dashv$       | $\dashv$       | +        | ╡        |           |
| 1                 |     | +        | Н            | Н          | t            | ╫  | $\dagger$ | +        | -        | $\dashv$   | $\dashv$ | $\dashv$ |     | t        | 7        | 54          | ┪        | +              |          |          | 1          |  | -           | 7        | $\dashv$   | $\dashv$ |     |          | 104        | 7           | $\neg$   | 7        |          | $\dashv$ | ╛            |                | 1              | +        | $\dashv$ |           |
|                   |     | П        |              | П          | T            | 11   | $\top$    | T        |          |  |          |          |     |          |          | 55          |          | ı              |          |          |            |  |             |          |            |          |     |          | 105        |             |          |          |          |          |              |                |                | $\Box$   |          |           |
| 6                 | П   | Ţ        |              |            |              |  |           |          |          |  |          |          |     |          |          | 56          |          |                |          |          |            |  |             | _        | _          |          |     | _        | 106        |             |          | $\Box$   |          | _        | _            | _              | _              | _        | _        |           |
| 1                 |     | Ш        | Ц            |            | L            | $\perp$  | Ц         |          | _        |  |          | _        |     | ļ        | _        | 57          | _        | _              |          | _        | _          | $\dashv$   | _           | _        | 4          | _        |     | -        | 107        | 4           | _        | _        | _        |          |              | _              |                | 4        | _        |           |
| 8                 | ++  | 4        | Ц            | Ц          | 1            | H  | Н         | _        | _        |  |          | 4        |     | -        | $\dashv$ | 58          | _        | 4              | _        |          | _          | 4  |             |          | $\dashv$   | $\dashv$ |     |          | 108        | 4           | -        | 4        | _        |          | -            | -              | -              | $\dashv$ | ᅴ        |           |
| 1                 |     | 4        | Н            | Н          | 1            | H  | Н         | 4        | -        | _  | $\dashv$ | -        |     | -        | -        | 59          |          | 4              |          | _        | $\dashv$   | $\dashv$   | $\dashv$    | -        | -          | $\dashv$ |     | _        | 109<br>110 | ┥           |          | $\dashv$ | -        |          | -            | -              | -              | $\dashv$ | $\dashv$ |           |
| 1D                |     | -        | Н            | Н          | +            | H  | -         |          | -        | _  | -        | _        |     | H        | $\dashv$ | 60<br>61    |          | $\dashv$       |          |          |            |  | $\dashv$    | $\dashv$ | ┥          | -        |     |          | 111        | -           |          | -        | -        |          | $\dashv$     | -              | ┪              | -        | -        |           |
| 12                | 11  | +        | Н            | ╀          | H            | Н  | Н         | -        | Н        | _  | $\dashv$ |          |     | ŀ        |          | 62          | $\dashv$ | -              |          | _        | $\exists$  | $\dashv$   | $\dashv$    | $\dashv$ | -          | ┪        |     | -        | 112        | -           | $\dashv$ | $\dashv$ | _        | Н        | $\dashv$     | -              | $\dashv$       | 7        | -        |           |
| 1                 |     | +        | H            | +          | H            | H  | $\dashv$  |          | Н        | Н  | H        |          |     | ŀ        | $\dashv$ | 63          | -        | $\dashv$       |          |          | $\dashv$   | $\dashv$   |             |          |            | $\dashv$ |     | $\vdash$ | 113        | 7           |          | H        | _        | Н        |              | $\dashv$       | $\dashv$       | 1        | $\dashv$ | ı         |
| 114               | _   | +        | H            | +          | H            | ۲  | H         | $\dashv$ | $\dashv$ | <del>                                     </del> | Н        |          |     | t        | _        | 64          |          |                |          | Т        | П          |  |             |          |            | $\neg$   |     | Г        | 114        | _           | $\neg$   |          |          | П        |              |                |                | _        |          |           |
| 15                |     | H        | H            | T          | H            | t  | H         |          |          | _  |          |          |     | ı        |          | 65          |          |                |          |          |            |  |             |          |            |          |     |          | 115        |             |          |          |          |          |              |                |                |          |          | i         |
| 118               | Ħ   | $\sqcap$ |              | 1          | H            | †  | H         |          |          |  |          |          |     | Ī        |          | 66          |          |                |          |          |            |  |             |          |            |          |     |          | 116        |             |          | 1,       |          | Ĺ        |              | 1              |                |          |          |           |
| 17                |     | П        | П            | T          | П            | _1_  | ij        |          |          |  |          |          |     | [        |          | 67          |          |                |          |          |            |  |             |          |            |          |     |          | 117        |             |          |          |          | Ľ.       |              |                | Ш              |          |          | 1         |
| 18                |     | Ш        | N            | N          | N            | 1  | J         |          |          |  |          |          |     |          |          | 68          |          |                |          | _        | _          | _  |             |          |            | Ш        |     | L        | 118        |             |          |          | _        | _        |              |                | - 1            |          |          |           |
| 10                |     | Ш        | 4            | V          | -            | 1  | 4         |          |          | L_   | L        |          |     |          |          | 69          |          |                |          | _        |            |  |             | Ц        |            |          |     |          | 119        | _           |          |          | _        | _        | $\vdash$     | Ŀ              | Ш              |          |          | !         |
| 20                | 1   | Ш        | Ц            | 1          | Ц            |  | Ц         |          | _        | L  | L        |          |     |          |          | 70          |          |                |          | L        | _          |  |             |          |            |          |     | _        | 120        | _           |          |          |          | <u> </u> |              |                | Ш              | Ш        | -        | ١.        |
| 21                | _   | Ш        | Ц            | 1          | Ц            | 1  | Ц         |          |          | _  |          | L        | Į   | -        |          | 71          |          |                |          | <u> </u> | <u> </u>   |  |             | _        | Щ          |          |     | <u></u>  | 121        | _           |          |          | _        | <u> </u> |              |                | -              | =        |          | !         |
| 22                | _   | 1        | Ц            | 1          | Ц            | 1  | Н         |          | ļ        |  | _        | _        | l   |          |          | 72          | _        |                | _        | ┝        | <u> </u>   | _  | <u> </u>    | _        | Н          | _        |     | -        | 122        | _           |          | -        |          | -        | -            | _              | Н              | Н        | H        |           |
| 23                |     | 1        | $\downarrow$ | 4          | Н            | +  | Ц         |          | <u> </u> | <u> </u>   | ļ        | -        | 1   |          |          | 73<br>74    |          | -              | -        | _        | <b> </b> - | -  | ├-          |          | _          | -        |     | $\vdash$ | 124        |             | _        | 35       | 4        | 1142     | 51           | . <del>X</del> | :0             |          | t o      | 1         |
| 24                | -   | -        | Н            | 4          | H            | +  | H         | _        | -        | ⊢  | ├-       | -        | ł   |          | -        | 75          | _        |                |          | $\vdash$ | -          | ⊢  | ├           | _        | -          | -        |     | -        | 125        | . *         | -        | 5        | 79.      | 1        | 24           | 23             | 203            | 156      | lei.     | 霧         |
| 25                |     | ╢        | 1            | -          | Н            | ł  | Н         | 3 1      | -        | ⊢  | ├        | -        | ł   |          |          | 76          | 20       | H              |          | ├─       | . :        | -  | <del></del> | - 12     | Н          | -        |     | -        | 126        | <b>1</b> 53 | 0.5      |          |          |          | y AA         | 100            | 1              | 78       |          |           |
| 27                |     | ╫        | -            | H          | Н            | Ŧ  | H         | _        | ├        | ╁╌   | $\vdash$ | -        | 1   |          | -        | 77          | _        |                | ┝        | $\vdash$ | $\vdash$   | <del> </del>                                     | -           | -        | Ė          | -        | -   |          | 127        | ` .         | _        |          | *.,      | -        | 7.7          |                | -              |          |          | 6-44      |
| - La              | _   | #        | Z,           | V          | V            | ۲,   | 7         | į i      |          | 7  | ╁╴       | -        | l.  |          |          | 78          | - 1      | -              | Г        |          |            | -  |             | _        |            |          |     |          | 128        |             |          |          | Т        |          |              |                | ٠.             |          | 4.       | :         |
| 28                |     | #        | 12           | X          | 2.           | _  |           | :        | _        | ⇈  | T        |          | 1   |          |          | 79          | Г        |                |          | Г        |            |  |             |          | П          |          | ١.  |          | 129        |             | ٠,       | i.)      | 4.5      | 6        | ्ः           | 1              | 為              | 1        | 145      | *4        |
|                   | 10  |          | 3            | V          | ī            | 1  | ~         | -        | Г        | Ι.   |          |          | 1   | - 1      |          | 80          |          |                |          |          |            |  |             |          |            |          | . [ |          | 130        | 1           |          |          | ٠,       |          |              | 1.0            |                | \$ 4     |          |           |
|                   | D   |          | 72           | ī          | Ī            | 1  | ~         | AM.      |          |  |          |          | ]   |          |          | 81          |          |                |          | -        |            |  | Ĺ           | 4        |            |          |     |          | 131        |             | *        |          | 84       | Ä        | 12           | 13             | Ť              | *        | 漢        |           |
|                   | O.  | 7        | E            | П          | 7.           | I  |           | ÷        |          |  | L        | L        |     |          | Ш        | 82          |          | L              | L        | L        | L          | Ļ.   | L           | L        | L          |          |     | <u> </u> | 132        |             |          |          | L        | L        | _            | 2              | ٠,             | 2,       | 0        | 7 7       |
| 3                 |     |          |              | Ц          | Ŀ            | 1  | ✓         |          | _        | L  | $\perp$  | L        | 1   |          | _        | 83          | _        | _              | Ļ        | <u> </u> | ┖          | _  | _           | L        | <u> </u>   | L        |     |          | 133        |             | _        | <u> </u> | <u> </u> | L        | ┡            |                | _              | L        | L        | -2        |
| 3                 |     | Ц        | 1            | Ŀ          | 41           | 4  | 1         | _        | Ļ        | ┡  | ╀        | L        | -   |          | L        | 84          | _        | <u> </u>       | 1_       | <u> </u> | ┝          | <u> </u>   | ⊢           | L        |            | <u> </u> |     | _        | 134        |             | <u> </u> | ļ.,      | <u> </u> | ⊢        | <del> </del> | -              |                | _        | $\vdash$ | :         |
| 3                 |     | Н        | ļ.           | Н          | H            | $\!$ | ╀         | <u> </u> | ┡        | ╄  | ↓        | ┡        | ┨   |          | <u> </u> | 85<br>86    | L        | -              | <u> </u> | ├-       | ⊬          | ┝  | ├           | ├        | -          | -        |     | -        | 135        | _           | ├        | ŀ        | 100      | -        | -            | <del>2</del> / | -              | -        |          | 1.7       |
| 3                 |     | Н        | ╀            | 7          | H            | H  | V         | <u> </u> | <b>├</b> | ╀  | +-       | -        | ┨   |          | ┝        | 87          | ┝        | -              | ╀        | +-       | ⊢          | ⊢  | $\vdash$    | ┝        | -          | -        | ł   | $\vdash$ | 137        | -           | ├        | ┝        | H        | ╁╴       | -            | -              | <del>  -</del> | ÷        | $\vdash$ | 1         |
| 7 3               |     | Н        | +            | Y          | ľ            | 4  | _         | -        | ╁        | ╁╴   | ⊢        | ┝        | 1   |          | ┝        | 88          | -        | -              | $\vdash$ | -        | ╁          | <del>                                     </del> | -           | ┝        | H          | -        | l   |          | 138        |             | $\vdash$ | ┝        | -        | -        | 7.0          | -              | Η.             | -        | H        |           |
| 13                | _   | И        | +            | V          | ∤,           | ╁  | 7         | H        | +-       | ╁  | ╁        | ╁        | 1   |          | $\vdash$ | 89          | -        | -              | $\vdash$ | H        | +          | +  | $\vdash$    | $\vdash$ | -          | -        | 1   |          | 139        | _           | -        | -        |          |          | -            | Т              |                | ī        |          | ,         |
| 1/4               |     | Н        | +            | V          | 1            | 7  | 7         | $\vdash$ | +        | ╁  | ╁        | $\vdash$ | 1   |          | $\vdash$ | 90          | $\vdash$ | <del> </del>   | $\vdash$ | $\vdash$ | $\vdash$   | T  | $\vdash$    | Т        |            | $\vdash$ | 1   |          | 140        |             | Т        | Г        | Τ        |          | Г            | Г              | Г              |          |          | l         |
|                   | _   | ¥        |              | <b>⊬</b> − | <del>-</del> | +  |           | -        | $\vdash$ | $\vdash$   | +        | 1        | ł   |          | $\vdash$ | 91          | _        | $\vdash$       | $t^-$    | +        | 1          | <del>                                     </del> | t           | H        | $\vdash$   | $\vdash$ | 1   |          | 141        |             | <u> </u> | $\vdash$ | Т        | T        | Г            | <u> </u>       |                | _        | Г        | ĺ         |
| 4                 | 2   | <u>+</u> | /            | ۲          | ۲            | +  | r         | $\vdash$ | t        | +  | ╁╌       | +-       | 1   |          | ┢        | 92          | $\vdash$ | <del>  -</del> | 1        | $t^-$    | $\vdash$   | $\vdash$   | -           | $\vdash$ | T          | $\vdash$ | 1   | $\vdash$ | 142        |             |          |          |          | T        | $\vdash$     | $\vdash$       | $I^-$          | Г        | Г        |           |
| 1 to 4            | 3 1 |          |              | i's        | 3            | F  | 44        | ý,       | 1        | t  | +        | t        | 1   |          |          | 93          | T        | Г              | Τ        | $\vdash$ | ŀ          |  | $\vdash$    | Г        | T          | Г        | 1   | $\vdash$ | 143        | 28          |          | 16       | ide:     | 3        | 5.0          | 4              | 0.0            | 2        | ò        | 1         |
| 4                 | 4   | 3*       | . T          | T          | ť            | Ť  |           | Ė        | Τ        | †  | T        | T        | 1   |          | Г        | 94          | Τ        | 1              | Π        | T        | Γ          | Γ  | Π           |          | Г          | Γ        | ]   |          | 144        |             |          |          | F        |          | 8.0          |                | ?*-            | 1.55     | ri.      | <b>18</b> |
| 4                 | 5   | _        | _            | Τ          | Ť            | 1  |           |          | İ        | T  | T        | T        | 1   |          |          | 95          |          | Γ              | L        |          |            |  |             |          |            |          |     |          | 145        |             |          | :        | 1        | ŀ        | l            | ]              | 1.5            | 1        |          | 1         |
| 4                 | 6   |          | G.           | 4          | 7            | J  | ني        |          |          |  |          |          | ]   |          |          | 96          |          |                | Ĺ        | $\Box$   | 匚          |  |             |          |            |          |     |          | 146<br>147 |             | 1        | 74       | *        | .10      | 7            | às             | 14.            | 2        |          |           |
| 4                 | 7   |          |              | ž          |              | 1  |           |          |          | oxdot  | L        | L        |     |          | Ĺ        | 97          |          | L              | L        | L        | $\perp$    | L  | L           | _        | L          | L        |     | $\vdash$ | Ī          | _           | بازوه    |          |          |          | 4            | 2 .            | 3.             | 1        | Ġ.       |           |
| . [~ ]4           | 8   |          | Ŀ            | Ľ          | 1            | J  |           | Ĺ        | Ľ        |  | L        | L        | 1   |          | L        | 98          | L        | <u> </u>       | L        | ↓_       | ┡          | ↓_   | $\vdash$    | <u> </u> | _          | _        | -   | $\vdash$ | 148        |             |          |          | -        | ŀ        |              | Ŀ              | -              | L        | -        | 1         |
| - 4               |     | _        | _            | 1          | +            | 4  |           | L        | 1        | 1  | +        | $\vdash$ | 1   |          | <u> </u> | 99          | 上        | 1              | ┞        | $\vdash$ | -          | 1  | -           | $\vdash$ | -          | $\vdash$ | {   | -        | 149<br>150 |             | $\vdash$ | ⊢        | $\vdash$ | ╀        | ├-           | ├              | <del> </del>   | -        | -        | ,         |
| 5                 | 0   |          |              | 1_         | 1            | $\perp$  |           | _        | _        | ┸  | _        | L        | J   |          | ட        | 100         | 1        | <u>L</u> .     | 1        |          | Ц.         |  | _           | Ц.,      | <u>L</u> . | L.,      | J   |          | lion       | Щ.          |          | <u> </u> | ـــا     |          | <u></u>      | ــــ           | <u> </u>       | 1        | ١.       | ı,        |

If more than 150 claims or 10 actions staple additional sheet here